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NOTICE OF ALLOWANCE AND FEE(S) DUE

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02/19/2010

CURATOLO SIDOTI CO., LPA 24500 CENTER RIDGE ROAD, SUITE 280 CLEVELAND, OH 44145 EXAMINER

ADMASU, ATNAF S

ART UNIT PAPER NUMBER

1796

DATE MAILED: 02/19/2010

APPLICATION NO. FILING		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/546,551	07/19/2006	Peter Ellenberger	MBZ-0513	8357

TITLE OF INVENTION: METHOD AND COMPOSITION FOR INJECTION AT A TUNNEL BORING MACHINE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/19/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a) specifying a new corre	maintenance fees verspondence address:	vill be and/o	mailed to the current r (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee par	e(s) Transmittal. The ers. Each additiona	is certii I papei	ficate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/546,551	07/19/2006	•	Peter Ellenberger		•	MBZ-0513	8357
TITLE OF INVENTION	N: METHOD AND COM	POSITION FOR INJECT	TION AT A TUNNEL BO	RING MACHINE			
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/19/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
ADMASU	, ATNAF S	1796	507-135000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			or agents OR, alternate (2) the name of a sing registered attorney or	s of up to 3 registered patent attorneys, alternatively, of a single firm (having as a member a orney or agent) and the names of up to patent attorneys or agents. If no name is			
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	T a substitute for filing an (B) RESIDENCE: (CIT)	patent. If an assign assignment. Y and STATE OR C	COUNT	TRY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporat	ion or other private gro	oup entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Dep	rd. Form PTO-2038	is atta	ached. required fee(s), any de	
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NOTE: The Issue Fee an	nd Publication Fee (if requ		d from anyone other than				e assignee or other party in
Authorized Signature				Date			
Typed or printed name This collection of information is required by 37 CFR 1.311. The information							
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria. Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	FR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the DNOT SEND FEES OR	on is required to obtain or 1.14. This collection is es 7 depending upon the indi te Chief Information Offic COMPLETED FORMS T	retain a benefit by t stimated to take 12 r vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minute ommen Trader S. SEN	lic which is to file (and s to complete, includin ts on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/546,551	07/19/2006	Peter Ellenberger	MBZ-0513	8357			
23575 7:	23575 7590 02/19/2010			EXAMINER			
CURATOLO SI	DOTI CO., LPA	ADMASU, ATNAF S					
24500 CENTER RIDGE ROAD, SUITE 280			ART UNIT PAPER NUME				
CLEVELAND, O	H 44145		1796				
			DATE MAILED: 02/19/201	0			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 582 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 582 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/546,551	ELLENBERGER, PETER		
Notice of Allowability	Examiner	Art Unit		
	ATNAF ADMASU	1796		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS		
2. X The allowed claim(s) is/are <u>1-3,8,9,11-15,17 and 19-26.</u>				
 3. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) including changes required by the Notice of Draftspers		-948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Commet Regarding Requirement for Deposit	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme	(PTO-413), te		
of Biological Material	9. Other			
/ASA/	/Timothy J. Kugel/ Primary Examiner, Art	Unit 1796		

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DETAILED ACTION

1. Claims 1-3, 8, 9, 11-15, 17 and 19-26 are pending as amended on 29 January 2010, claims 21-26 are new and claims 4-7, 10, 16 and 18 being cancelled.

2. The text of those sections of Title 35, US Code not included in this action can be found in a prior Office Action.

Response to Amendment and arguments

3. Applicant's importation of the limitation of claims 16 and 18 into independent claim 1 and cancellation of claims 16 and 18, limiting the injection rate of the foamed aqueous surfactant solution from 0.2 to 4Kg dry material per m³ of excavated soil, and wherein the polymer is injected at a rate of from 0.05-2Kg dry polymer per m³ of excavated soil and the importation of the limitation of claim 7 into independent claim 3, limiting the surfactant to C₈₋₂₂ fatty alcohol sulphate salts, C₈₋₂₂ fatty alcohol ether sulphate salts have been fully considered and overcome the following:

The rejection of claims 1 and 2 under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,287,052 (Basset hereinafter) in view of US Patent 4,013,568 (Fischer hereinafter) has been withdrawn.

The rejection of claims 3-7 and 11-14 under 35 U.S.C. 103(a) as being unpatentable over Basset in view of Fischer and in further view of US Patent 5,513,712 (Sydansk hereinafter) has been withdrawn.

Allowable Subject Matter

4. Claims 1-3, 8, 9, 11-15, 17 and 19-26 are allowed for the reasons of record.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ATNAF ADMASU whose telephone number is (571)270-5465. The examiner can normally be reached on M-F 8:00-5:30, Flexible Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

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Representative or access to the automated information system, call 800-786-

9199 (IN USA OR CANADA) or 571-272-1000.

/ASA/ /Timothy J. Kugel

/Timothy J. Kugel/ Primary Examiner, Art Unit 1796